BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

e of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Bill Status : 3rd And Part Bill

Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications, including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of modified proctors density. MORTH Specification No. 305 as per the direction of Engineer in charge									
	Cum								
Qty Paid Upto 2nd And Part Bill								450.23	
Footpath									
LHS		1	30.00			2.70	0.30	54.00	
		1	30.00			2.50	0.30	50.00	
		1	30.00			2.80	0.30	56.00	
		1	30.00			2.20	0.30	44.00	
		1	17.00			2.80	0.30	31.73	
RHS		1	30.00			2.80	0.30	56.00	
		1	30.00			2.80	0.30	56.00	
		1	30.00			2.50	0.30	50.00	
		1	30.00			2.80	0.30	56.00	
		1	17.00			3.00	0.30	34.00	
LHS		1	21.80			2.30	0.30	33.43	
		1	12.20			2.80	0.30	22.77	
		1	32.00			1.80	0.30	38.40	
		1	30.00			2.20	0.30	44.00	
		1	20.30			2.20	0.30	29.77	
		1	23.30			2.00	0.30	31.07	
		1	33.70			2.80	0.30	62.91	
LHS		1	30.00			1.20	0.30	24.00	
		1	20.30			1.80	0.30	24.36	
		1	14.70			1.80	0.30	17.64	
		1	30.00			2.00	0.30	40.00	
		1	17.00			2.00	0.30	22.67	
		1	30.00			2.20	0.30	44.00	
		1	10.00			2.00	0.30	13.33	
		1	15.00			2.00	0.30	20.00	
		1	11.80			2.00	0.30	15.73	
		1	30.00			2.00	0.30	40.00	
		1	13.70			2.00	0.30	18.27	
							Total Work Done Qty	1480.31	
							Deduct Paid Qty	-450.23	

For SAPIENCE CONSULTANTS
Consultants
Authorised Signatory

Engineer
No 17

Asst. Executive Engineer
Yashwanthapura Sub Division

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BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

e of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
					Bill Status : 3rd And Part Bill				
					Qty Payable In This Bill			1030.08	
					Total Qty Upto 125 %			336.81	
					Total Qty Above 125 %			693.27	

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for SAPIENCE CONSULTANTS

Authorised Signatories

actor

Engineer
d No 17

Asst. Executive Engine
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BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

e of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Bill Status : 3rd And Part Bill

Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision. as per the direction of Engineer in charge									
	Cum								
Qty Paid Upto 2nd And Part Bill								1381.77	
					Qty Payable In This Bill			0.00	

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For SAPIENCE CONSULTANTS

Authorised Signatory

ractor

. Engineer
d No 17

Asst Executive Engineer
Yashwanthapura Sub Divisio

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MEASUREMENT SHEET

e of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Bill Status : 3rd And Part Bill

Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
Providing and filling sand in foundation to required depth for sub soil treatment including watering ramming with all lead and lift Complete as per specifications. specification. No. KBS 2.10.2as per the direction of Engineer in charge	Cum								
Qty Paid Upto 2nd And Part Bill								303.67	
						Qty Payable In This Bill		0.00	

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for SAPIENCE CONSULTANTS

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Consultants

ractor

Engineer
d No 17

Asst. Executive Engineer
Yashwanthapura Sub Division

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BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

Name of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Bill Status : 3rd And Part Bill

	Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
	Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 as per the direction of Engineer in charge									
		Sqm								
	Qty Paid Upto 2nd And Part Bill								1171.80	
	CC Road									
	#27		1	27.00	4.00	4.00	4.00	0.15	16.20	
								Total Work Done Qty	1188.00	
								Deduct Paid Qty	-1171.80	
								Qty Payable In This Bill	16.20	

for SAPIENCE CONSULTANTS

Authorised Signatories

Executive Engineer
Yashwanthapura Sub Division

Engineer
No 17

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MEASUREMENT SHEET

e of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Bill Status : 3rd And Part Bill

	Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502 Complete with all lead and lift and as per the direction of the Engineer-in-Charge.									
		Sqm								
	Qty Paid Upto 2nd And Part Bill								5094.80	
								Qty Payable In This Bill	0.00	

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For SAPIENCE CONSULTANTS

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Consultants

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Engineer
d No 17

Asst. Executive Engineer
Yashwanthapura Sub Division

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MEASUREMENT SHEET

e of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Bill Status : 3rd And Part Bill Qty	Remarks
Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications.Clause 501 of MORTH V revision No. 406 as per the direction of Engineer in charge.									
	Sqm								
Qty Paid Upto 2nd And Part Bill								35068.39	
							Qty Payable In This Bill	0.00	

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Engineer
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MEASUREMENT SHEET

e of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

	Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
	Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 as per the direction of Engineer in charge									
		Sqm								
	Qty Paid Upto 2nd And Part Bill								79255.80	
								Qty Payable In This Bill	0.00	

Bill Status : 3rd And Part Bill

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Engineer
d No 17

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MEASUREMENT SHEET

e of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

	Description of Items	Unit	No	L (M)	B1 (M)	Bill Status : 3rd And Part Bill B2 (M)	B (M)	D (M)	Qty	Remarks
	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10									
		Cum								
	Qty Paid Upto 2nd And Part Bill								2481.87	
						Qty Payable In This Bill			0.00	

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tractor

t. Engineer
rd No 17

Asst. Executive Engineer
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MEASUREMENT SHEET

e of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Bill Status : 3rd And Part Bill Qty	Remarks
Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision. -using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 40 mm) with 5.4% VG-30 Bitumen Issue Rates as per the direction of Engineer in charge									
	Cum								
Qty Paid Upto 2nd And Part Bill								1785.31	
							Qty Payable In This Bill	0.00	

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rd No 17

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BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

Name of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

	Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Bill Status : 3rd And Part Bill Qty	Remarks
	Providing and laying heavy duty cobble stones 75mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications.Specification No. KBSas per the direction of Engineer in charge									
		Sqm								
	Qty Paid Upto 2nd And Part Bill								3779.17	
								Qty Payable In This Bill	0.00	

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st. Engineer
ard No 17

Asst. Executive Engin
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BRUHAT BENGALURU MAHANAGARA PALIKE

e of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

MEASUREMENT SHEET

Bill Status : 3rd And Part Bill

Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 as per the direction of Engineer in charge									
	Cum							1981.03	
Qty Paid Upto 2nd And Part Bill									
							Qty Payable In This Bill	0.00	

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Consultants

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Engineer
d No 17

Asst. Executive Engineer
Yashwanthapura Sub Division

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BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

e of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Bill Status : 3rd And Part Bill

Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
Providing and Constructing dry lean cement concrete mix CC 1:5 10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications Clause 601 of MORTH V Revision and IS 456 Table-5 do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver, as per the direction of Engineer in charge								
	Cum								
Qty Paid Upto 2nd And Part Bill									
CC Road									
#27								201.15	
		1	27.00			4.00	0.15	16.20	
							Total Work Done Qty	217.35	
							Deduct Paid Qty	-201.15	
							Qty Payable In This Bill	**16.20**	

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t. Engineer
rd No 17

Asst. Executive Engineer
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BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

e of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Description of Items	Unit	No	L (M)	B1 (M)	Bill Status : 3rd And Part Bill B2 (M)	B (M)	D (M)	Qty	Remarks
Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel,laying and fixing of 125 micron thick polythene film, wedges, steelplates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to -do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. as per the direction of Engineer in charge									
	Cum								
Qty Paid Upto 2nd And Part Bill									
CC Road								299.40	
#27		1	27.00						
						4.00	0.15	16.20	
							Qty Payable In This Bill	315.60	
							Deduct Paid Qty	-299.40	
							Qty Payable In This Bill	16.20	

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For SAPIENCE CONSULTANTS

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tractor

t. Engineer
rd No 17

Asst. Executive Engineer
Yashwanthapura Sub Division

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BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

e of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE. - 2019-20-RRN-DIV(03)

Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
Bill Status : 3rd And Part Bill									
Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift. as per the direction of Engineer in charge									
	Sqm								
Qty Paid Upto 2nd And Part Bill		1						1278.05	
CC Road									
#27		1	27.00			4.00		108.00	
							Qty Payable In This Bill	1386.05	
							Deduct Paid Qty	-1278.05	
							Qty Payable In This Bill	**108.00**	

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. Engineer
d No 17

Asst. Executive Engineer
Yashwanthapura Sub Division

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MEASUREMENT SHEET

e of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Bill Status : 3rd And Part Bill

Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1(a) / 2.3.1as per the direction of Engineer in charge									
	Cum								
Qty Paid Upto 2nd And Part Bill								3.95	
							Qty Payable In This Bill	0.00	

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rd No 17

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Yashwanthapura Sub Division

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BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

Name of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Bill Status : 3rd And Part Bill

Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(b) / 2.3.5. as per the direction of Engineer in charge									
PCC	Cum							68.38	
Qty Paid Upto 2nd And Part Bill									
							Qty Payable In This Bill	0.00	

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For SAPIENCE CONSULTANTS

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Consultants

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t. Engineer
rd No 17

Asst. Executive Engineer
Yashwanthapura Sub Division

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MEASUREMENT SHEET

e of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Bill Status : 3rd And Part Bill Qty	Remarks
Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. as per the direction of Engineer in charge									
	Cum								
Qty Paid Upto 2nd And Part Bill								10.95	
							Qty Payable In This Bill	0.00	

tractor

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Authorised Signatory Consultants

L Engineer
rd No 17

Asst Executive Engine
Yashwanthapura Sub Divisi

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BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

e of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
Bill Status : 3rd And Part Bill									
Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 as per the direction of Engineer in charge									
	Sqm								
Qty Paid Upto 2nd And Part Bill								23.31	
							Qty Payable In This Bill	0.00	

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For SAPIENCE CONSULTANTS

Authorised Signatories

ractor

Asst. Executive Enginee
Yashwanthapura Sub Divisio

Engineer
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BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Bill Status : 3rd And Part Bill Qty	Remarks
roviding and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones histle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, abour, curing complete as per specifications. KBS 5.1.13 as per the direction of Engineer in charge	Sqm								
Qty Paid Upto 2nd And Part Bill								24.86	
							Qty Payable In This Bill	0.00	

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For SAPIENCE CONSULTANTS

Authorised Signatory Consultants

Engineer
No 17

Asst. Executive Engineer
Yashwanthapura Sub Division

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BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

me of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Bill Status : 3rd And Part Bill

	Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
	Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. as per the direction of Engineer in charge									
		Sqm								
	Qty Paid Upto 2nd And Part Bill								37.72	
								Qty Payable In This Bill	0.00	

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Consultants

ractor

Engineer
o No 17

Asst. Executive Engineer
Yashwanthapura Sub Division

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MEASUREMENT SHEET

e of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
				Bill Status : 3rd And Part Bill					
Providing and filling sand in foundation upto plinth to required depth for sub soil treatment including watering ramming with all lead and lift complete as per specifications.specification. No. KBS 2.10.2 as per the direction of Engineer in charge	Cum								
Qty Paid Upto 2nd And Part Bill								158.26	
							Qty Payable In This Bill	0.00	

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for SAPIENCE CONSULTANTS
Authorised Signatory
Consultants

Engineer
d No 17

Asst. Executive Engineer
Yashwanthapura Sub Division

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BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

Name of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
Bill Status : 3rd And Part Bill									
Providing and injecting chemical emulsion for Pre- constructional Anti-Termite Treatment, creating continuous chemical barrier under and around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits, with chloropyriphos emulsifiable concentrates of 20% concentration, including cost of chemical, diluting in water to one percent concentration, labour, HOM of equipments, complete as per specifications. (Plinth area of the building at ground floor only shall be measured) Specification No. KBS : 3.2.6 / 3.2.7 as per the direction of Engineer in charge	Sqm								
Qty Paid Upto 2nd And Part Bill								128.70	
							Qty Payable In This Bill	0.00	

M/s SAPIENCE CONSULTANTS

Authorised Signatory Consultants

Contractor

Asst. Executive Engineer

Yashwanthapura Sub Division

Asst. Engineer

Ward No 17

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BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

Name of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Bill Status : 3rd And Part Bill

Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs. with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement a as per the direction of Engineer in charge									
	Cum								
Qty Paid Upto 2nd And Part Bill								3.60	
							Qty Payable In This Bill	0.00	

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For SAPIENCE CONSULTANTS

Authorised Signatory

Consultants

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t. Engineer
rd No 17

Asst. Executive Engineer
Yashwanthapura Sub Division

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BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

Name of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Bill Status : 3rd And Part Bill

Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintles and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, .pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 as per the direction of Engineer in charge									
	Cum								
Qty Paid Upto 2nd And Part Bill								5.71	
							Qty Payable In This Bill	0.00	

Contractor

For SAPIENCE CONSULTANTS

Consultants

Authorised Signator

Asst. Engineer

Ward No 17

Asst. Executive Engineer

Yashwanthapura Sub Division

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BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

Name of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Bill Status : 3rd And Part Bill

Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2as per the direction of Engineer in charge									
New Kerb	Sqm								
Qty Paid Upto 2nd And Part Bill									
								33.40	
No of Kerb Legth/.45									
							Qty Payable In This Bill	0.00	

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for SAPIENCE CONSULTANTS

Authorised Signator Consultants

st. Engineer
rd No 17

Asst. Executive Engineer
Yashwanthapura Sub Division

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BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

Name of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Bill Status : 3rd And Part Bill

Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 5 mtrs. as per the direction of Engineer in charge									
Qty Paid Upto 2nd And Part Bill	Sqm								
Qty Payable In This Bill								26.32	
								0.00	

For SAPIENCE CONSULTANTS

Authorised Signatory

Consultants

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st. Engineer
ard No 17

Asst. Executive Engine
Yashwanthapura Sub Divis

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BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

Name of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Bill Status : 3rd And Part Bill

Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floor including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 as per the direction of Engineer in charge									
	Sqm								
Qty Paid Upto 2nd And Part Bill									
								3.09	
							Qty Payable In This Bill	0.00	

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For SAPIENCE CONSULTANTS

Authorised Signatory Consultants

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...st. Engineer
...ard No 17

Asst. Executive Engineer
Yashwanthapura Sub Division

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BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

Name of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Bill Status : 3rd And Part Bill

Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 550 as per the direction of Engineer in charge									
Road Widening Portion	Ton								
Qty Paid Upto 2nd And Part Bill								1.18	
							Qty Payable In This Bill	0.00	

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Ward
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for SAPIENCE CONSULTANTS

Authorised Signatories Consultants

Contractor

Asst. Engineer
Ward No 17

Asst. Executive Engineer
Yashwanthapura Sub Division

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BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

Name of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Bill Status : 3rd And Part Bill

Sl No	Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
	Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 as per the direction of Engineer in charge									
	Road Widening Portion	Sqm								
	Qty Paid Upto 2nd And Part Bill								60.33	
								Qty Payable In This Bill	0.00	

Contractor

For SAPIENCE CONSULTANTS

Authorised Signatories

Engineer
Ward No 17

Asst. Executive Engineer
Yashwanthapura Sub Division

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BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

Name of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Bill Status : 3rd And Part Bill

Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. as per the direction of Engineer in charge	Sqm								
Qty Paid Upto 2nd And Part Bill								74.43	
Qty Payable In This Bill								0.00	

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...01 SAPIENCE CONSULTANTS

Authorised Signatory

...Asst. Executive Engineer
Yashwanthapura Sub Division

...Engineer
...No 17

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BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

Name of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Bill Status : 3rd And Part Bill

Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
Providing 15mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. as per the direction of Engineer in charge	Sqm							53.19	
Qty Paid Upto 2nd And Part Bill									
							Qty Payable In This Bill	0.00	

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for SAPIENCE CONSULTANTS

Authorised Signatory

Consultants

Asst. Executive Engineer
Yashwanthapura Sub Division

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BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

Name of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE.- 2019-20-RRN-DIV(03)

Bill Status : 3rd And Part Bill

Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
Providing 12mm thick cement plaster in single coat with cement mortar 1:4, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. as per the direction of Engineer in charge	Sqm							19.80	
Qty Paid Upto 2nd And Part Bill									
							Qty Payable In This Bill	0.00	

for SAPIENCE CONSULTANTS

Authorised Signatory

Consultants

Asst. Executive Engineer

Yashwanthapura Sub Division

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Engineer

No 17

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BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

Name of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Bill Status : 3rd And Part Bill

Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
Cleaning lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications, as per the direction of Engineer in charge	Sqm								
Qty Paid Upto 2nd And Part Bill								72.99	
							Qty Payable In This Bill	0.00	

for SAPIENCE CONSULTANTS

Authorised Signatory

Consultants

Asst. Executive Engineer

Yashwanthapura Sub Division

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BRUHAT BENGALURU MAHANAGARA PALIKE.

MEASUREMENT SHEET

Name of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Bill Status : 3rd And Part Bill

Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications as per the direction of Engineer in charge									
	Sqm							72.99	
Qty Paid Upto 2nd And Part Bill									
Qty Payable In This Bill								0.00	

For SAPIENCE CONSULTANTS

Authorised Signatory

Consultants

Asst. Executive Engineer

Yashwanthapura Sub Division

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BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

Name of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Bill Status : 3rd And Part Bill

Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer. as per the direction of Engineer in charge									
	Cum							74.43	
Qty Paid Upto 2nd And Part Bill									
							Qty Payable In This Bill	0.00	

For SAPIENCE CONSULTANTS

Authorised Signatories

Asst. Executive Engineer
Yashwanthapura Sub Division

Engineer
No 17

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BRUHAT BENGALURU MAHANAGARA PALIKE

Name of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE.- 2019-20-RRN-DIV(03)

MEASUREMENT SHEET

Bill Status : 3rd And Part Bill

Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
Providing and laying Hassan Green granite flooring for staircase, treads and rises using pre polished 20 mm thick water cut green Granite slab laid over existing cement concrete bed in CM 1:3, average 20mm thick including full rounding for nosing , cutting 3 line grooves not more than 2 mm wide for antiskidding, curing etc.,complete. as per the direction of Engineer in charge									
Qty Paid Upto 2nd And Part Bill	Sqm							23.76	
Qty Payable In This Bill								0.00	

M/s SAPIENCE CONSULTANTS

Authorised Signatory Consultants

Asst. Executive Engineer
Yashwanthapura Sub Division

Engineer
No/17

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BRUHAT BENGALURU MAHANAGARA PALIKE

Name of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

MEASUREMENT SHEET

Bill Status : 3rd And Part Bill

Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame of size 92x31.75mm bottom section 1.3mm thick, weight 1.07kg/m; sides and top sections 1.3 mm. thick, weight 0.933 kg/m.shutter frame section comprising top and bottom section of size 40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter side outer 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutter interlock section 40mmx26.7mm wall thickness 1.1 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading all aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and riveted, in the assembled frame, stiffened with end clips for corners, angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be, with necessary steel screws, raul plugs or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar.using aluminium section powdered coated to a minimum of 60-70 microns with exterior durable pure polyester grade powder of approved quality.as per the direction of Engineer in charge									
Qty Paid Upto 2nd And Part Bill	Sqm								
								Qty Payable In This Bill	0.72
									0.00

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For SAPIENCE CONSULTANTS

Consultants

Authorised Signatory

Assistant Executive Engineer

Yashwanthpur Sub Division

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BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

Name of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Bill Status : 3rd And Part Bill

Sl No	Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
1	Providing and fixing M.S.Grill work for windows and ventilators weighing 21kg/sqm using M.S.Flats, or M.S.Squared rods, or combination of M.S.Flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of all materials, fixtures, labour and HOM of machinery									
	Road Widening Portion	Sqm							28.80	
	Qty Paid Upto 2nd And Part Bill									
								Qty Payable In This Bill	0.00	

HDI SAPIENCE CONSULTANTS

Authorised Signatory
Consultants

Asst Executive Engineer
Yashwanthapura Sub Division

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BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

Name of Work:- Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03)

Bill Status : 3rd And Part Bill

Description of Items	Unit	No	L (M)	B1 (M)	B2 (M)	B (M)	D (M)	Qty	Remarks
Providing and Applying enamel metal Paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter including cost of materials labour complete as per specification as per the direction of Engineer in charge									
Road Widening Portion	Sqm								
Qty Paid Upto 2nd And Part Bill								1.44	
					Qty Payable In This Bill			0.00	

For SAPIENCE CONSULTANTS

Authorised Signatory
Consultants

Asst. Executive Engineer
Yashwanthapura Sub Division

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